

FDH1000/FDLL1000

High Conductance Switching Diodes

T-03-09

• VF...1 V (max) @ 500 mA

Q_S...100 pC (max)

PACKAGES

FDH1000 FDLL1000 DO-35 LL-34

ABSOLUTE MAXIMUM RATINGS (Note 1)

Temperatures

Storage Temperature Range Maximum Junction Operating Temperature -65°C to +200°C +175°C +260°C Lead Temperature

Power Dissipation (Note 2)

Maximum Total Power Dissipation at 25°C Ambient Linear Power Derating Factor

500 mW 3.33 mW/°C

Maximum Voltage and Currents

WIV Working Inverse Voltage 50 V 10 **Average Rectified Current** 200 mA ΙĒ Continuous Forward Current 500 mA **Peak Repetitive Forward Current** 600 mA Peak Forward Surge Current ⁱf(surge) Pulse Width = 1 s 1.0 A Pulse Width = $1 \mu s$ 4.0 A

ELECTRICAL CHARACTERISTICS (25°C Ambient Temperature unless otherwise noted)

SYMBOL	. CHARACTERISTIC	MIN	MAX	UNITS	TEST CONDITIONS
Vf	Forward Voltage		1.0	٧	IF = 500 mA
l _R	Reverse Current		5,0 50 50	μΑ nA μΑ	V _R = 50 V V _R = 20 V V _R = 20 V, T _A = 125°C
BV	Breakdown Voltage	75		٧	I _R = 100 μA
С	Capacitance		5.0	pF	V _R = 0. f = 1.0 MHz
QS	Stored Charge		100	рC	If = 10 mA, VR = 10 V

Maximum ratings are limiting values above which lite or satisfactory performance may be impaired.
These are steady state limits. The factory should be consulted on applications involving pulsed or low duty-cycle operation.
For family characteristic curves, refer to Chapter 4, D4.